

WHAT ARE CLAIMED ARE:

1. An optical disc recording apparatus, comprising:
 - a light irradiator that irradiates a laser light onto an optical disc having a discoloration layer;
 - 5 a position controller that controls an irradiating position of the laser light;
 - a laser power controller that controls a laser power of the laser light in accordance with input image data;
 - a temperature detector that detects a temperature of the
 - 10 optical disc; and
 - a laser power corrector that corrects laser power for discoloration the discoloration layer by the laser light in accordance with the detected temperature in order to cancel a change in a temperature of the optical disc.
- 15 2. An optical disc recording apparatus, comprising:
 - a light irradiator that irradiates a laser light onto an optical disc having a discoloration layer;
 - a position controller that controls an irradiating position of the
 - 20 laser light;
 - an optical disc rotator that rotates the optical disc;
 - a laser power controller that controls a laser power of the laser light in accordance with input image data;
 - a temperature detector that detects a temperature of the
 - 25 optical disc; and
 - a rotation controller that controls a rotation velocity of the

optical disc in accordance with the detected temperature in order to cancel a change in a temperature of the optical disc.

3. An optical disc recording apparatus, comprising:

5 a light irradiator that irradiates a laser light onto an optical disc having a discoloration layer;

a position controller that controls an irradiating position of the laser light;

10 a laser power controller that controls a laser power of the laser light in accordance with input image data;

a light receiver that receives a reflected light of the laser light reflected by the optical disc and outputs a light receiving signal representing a light receiving level; and

15 a laser power corrector that corrects laser power to maintain a changing rate of the light receiving level to be a changing rate within a range determined in advance when the laser light at a laser power for discolorating the discoloration layer in accordance with the input image data.

20 4. An optical disc recording apparatus, comprising:

a light irradiator that irradiates a laser light onto an optical disc having a discoloration layer;

a position controller that controls an irradiating position of the laser light;

25 an optical disc rotator that rotates the optical disc;

a laser power controller that controls a laser power of the

laser light in accordance with input image data;

a light receiver that receives a reflected light of the laser light reflected by the optical disc and outputs a light receiving signal representing a light receiving level; and

- 5 a rotation controller that controls a rotation velocity of the optical disc to maintain a changing rate of the light receiving level to be a changing rate with in a range determined in advance when the laser light at a laser power for discolorating the discoloration layer in accordance with the input image data.

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